Corinex

Wireless to Powerline Router G

Corinex

Quick Start Guide

Declaration of Conformity

CE

Model: **Corinex Wireless to Powerline Router G**

Manufacturer: Corinex Communications Corp.
670-789 West Pender Street
Vancouver, BC
Canada V6C 1H2

Directives which Conformity is Declared:

EMC: 89/336/EEC
(in accordance with Article 10.2 of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility implemented in the Federal Republic of Germany by § 4 (2) of the Electromagnetic Compatibility Act (EMVG) of 18 September 1998 as published on 24 September 1998 (Federal Law Gazette I p. 2882). This declaration does not testify to compliance with the EMC protection requirements of other laws implementing Directives of the European Community other than Council Directive 89/336/EEC.)
1999/519/EEC
LVD: 73/23/EEC
R&TTE: 1999/5/EEC

Standards which Conformity is Declared:

EN 55022
Recommendation for measurement by Dortmund University
(measurement of conducted disturbances on AC mains in traffic mode, T-ISN Method)
EN 55024
EN 60950
EN 50371
EN 300328-2 v 1.2.1

The undersigned hereby declares the above specified equipment conforms to the above directives and standards.

Printed name / Title: **Peter Sobotka / CEO** Place / Date: **Vancouver / Sept.27.2004**

Signature:

For US Market Only

Model: **Corinex Wireless to Powerline Router G**

Manufacturer: Corinex Communications Corp.
670-789 West Pender Street
Vancouver, BC
Canada V6C 1H2

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

User Warning !

Any changes or modification to said product not expressly approved by Corinex could void the user's authority to operate the equipment.

Printed name / Title: **Peter Sobotka / CEO** Place / Date: **Vancouver / Sept.27.2004**

Signature: .....

This document, as well as the software described in it, is furnished under license and may be used or copied only in accordance with the terms of the license. The content of this document is furnished for informational use only, it is subject to change without notice, and it does not represent a commitment on the part of Corinex Communications Corp.

Corinex Communications Corp. assumes no responsibility or liability for any errors or inaccuracies that may appear in this document.

It is our policy to enhance our products as new technologies, hardware components, software and firmware become available; therefore, the information contained in this document is subject to change without notice.

Some features, functions, and operations described in this document may not be included and sold in certain countries due to government regulations or marketing policies.

The use of the product or its features described in this document may be restricted or regulated by law in some countries. If you are unsure which restrictions or regulations apply, you should consult your regional Corinex office or the authorized reseller.

Published by:
Corinex Communications Corp.
#670-789 West Pender Street
Vancouver, B.C.
Canada V6C 1H2

Tel.: +1 604 692 0520
Fax: +1 604 694 0061

Corinex is a registered trademark of Corinex Communications Corp.

Apple, MAC OS X are either registered trademarks or trademarks of Apple Computer, Inc. in the U.S.A. and/or other countries.
Microsoft, MS-DOS, MS, Windows are either registered trademarks or trademarks of Microsoft Corporation in the U.S.A. and/or other countries.

All products or company names mentioned herein may be the trademarks of their respective owners.

Copyright (c) 2001-2004 by Corinex Communications Corp.

NOTE: This equipment has been tested and found to comply with the limits for a Class B information technology equipment. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, the end user is advised to take adequate measures.

2004-09-24 ver 1.0

CORINEX COMMUNICATIONS CORPORATION

This End User License Agreement ("EULA") is a legal agreement between you and CORINEX COMMUNICATIONS CORPORATION ("CORINEX") with regard to the copyrighted Software provided with this EULA.

Use of any software and related documentation ("Software") provided with a CORINEX hardware product, or made available by downloading or otherwise to you by CORINEX in whatever form or media, will constitute your acceptance of these terms, unless separate terms are provided by the software supplier, in which case certain additional or different terms may apply. If you do not agree with the terms of this EULA, do not download, install, copy or use the Software.

1. Licence Grant. CORINEX grants to you a personal, non-transferable and non-exclusive right to use the copy of the Software provided with this EULA. You agree you will not copy the Software except as necessary to use it on a single hardware product system. You agree that you may not copy the written materials accompanying the Software. Modifying, translating, renting, copying, transferring or assigning all or part of the Software, or any rights granted hereunder, to any other persons, and removing any proprietary notices, labels or marks from the Software is strictly prohibited. Furthermore, you hereby agree not to create derivative works based on the Software. You may permanently transfer all of your rights under this EULA, provided you retain no copies, you transfer all of the Software, and the recipient agrees to the terms of this EULA. If the Software is an upgrade, any transfer must include all prior versions of the Software.

2. Copyright. The Software is licensed, not sold. You acknowledge that no title to the intellectual property in the Software is transferred to you. You further acknowledge that title and full ownership rights to the Software will remain the exclusive property of Corinex Communications Corporation and/or its suppliers, and you will not acquire any rights to the Software, except as expressly set forth above. All copies of the Software will contain the same proprietary notices as contained in or on the Software.

3. Reverse Engineering. You agree that you will not attempt, and if you are a corporation, you will use your best efforts to prevent your employees and contractors from attempting to reverse compile, modify, translate or disassemble the Software in whole or in part. Any failure to comply with the above or any other terms and conditions contained herein will result in the automatic termination of this license and the reversion of the rights granted hereunder to CORINEX.

4. Disclaimer of Warranty. The Software is provided "AS IS" without warranty of any kind. CORINEX and its suppliers disclaim and make no express or implied warranties and specifically disclaim warranties of merchantability, fitness for a particular purpose and non-infringement of third-party rights. The entire risk as to the quality and performance of the Software is with you. Neither CORINEX nor its suppliers warrant that the functions contained in the Software will meet your requirements or that the operation of the Software will be uninterrupted or error-free.

5. Limitation of Liability. Corinex's entire liability and your exclusive remedy under this EULA shall not exceed the price paid for the Software, if any. In no event shall CORINEX or its suppliers be liable to you for any consequential, special, incidental or indirect damages of any kind arising out of the use or inability to use the software, even if CORINEX or its supplier has been advised of the possibility of such damages, or any claim by a third party.

6. Applicable Laws. This EULA will be governed by the laws of Canada, excluding its conflict of law provisions.

7. Export Laws. This EULA involves products and/or technical data that may be controlled under any applicable export control laws, and regulation, and may be subject to any approval required under such laws and regulations.

8. Precedence. Except as set out above, where separate terms are provided by the software supplier, then, subject to this EULA, those terms also apply and prevail, to the extent of any inconsistency with this EULA.

Content

Copyright 1
End User License Agreement 2
Content 4
Package Content 5
Requirements 5
Installation Overview 6
Step 1: Connecting the Router 7
Step 2: Configuring Computers 9
Step 3: Configuring the Router 13

Congratulations to your choice of *Corinex Wireless to Powerline Router G*. The Router allows you to set up a home or small business network to share your high-speed Internet connection using either Ethernet cabling, Powerline and Wireless connection or combine these media in any possible way.

Package Content

Package Includes:

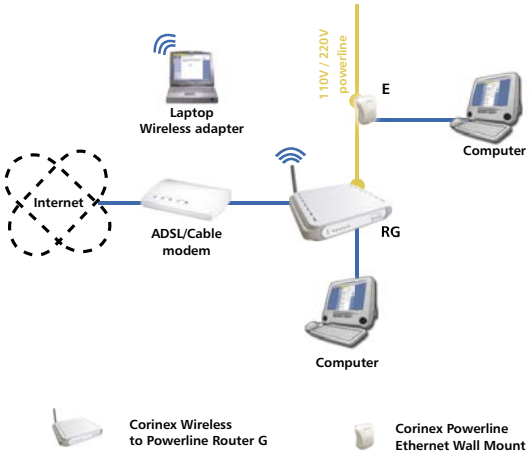
- Corinex Wireless to Powerline Router G
- Installation CD-ROM (including Corinex Wireless to Powerline Router G User Guide)
- Wireless antenna
- Power Cord with the proper AC plug for your region
- Ethernet cable (RJ-45) 2x
- Printed Quick Start Guide

Requirements

- IBM Compatible PC or Macintosh computer (needed for initial configuration of the Router)
- AC 220/110 V power outlet
- Broadband Connection (DSL, Cable) or Internet device with 10/100 Ethernet connection
- Ethernet, Powerline and/or Wireless connection for each computer
- Windows 98/ME/2000/NT/XP, Mac OS X or Linux operating system for computers sharing the Internet connection
- Web browser supporting JavaScript for the Router management

Installation Overview

This Guide will assist you with the installation and configuration of your *Corinex Wireless to Powerline Router G* for the first time. It will help you with basic settings, which are covering most of the settings you may need to configure for your Internet connection to be shared through the Ethernet, Powerline or Wireless medium. If you require more sophisticated setup, please refer to *Corinex Wireless to Powerline Router G* User Guide, which is enclosed on the Installation CD.



The next three chapters will explain to you how to connect your *Corinex Wireless to Powerline Router G* in three easy steps.

Step 1: Connecting the Router – First you need to connect cables and connect the Router both to the power and to the Internet connection; and, optionally to your Ethernet connected computers.

Step 2: Connecting the Computers – Then you will need to connect the computers to the Router, in order to be able to configure the settings of the Router. These steps differ between Ethernet, Powerline and Wireless connection, as well as between different sorts of operating systems and computers.

Step 3: Configuring the Router – The last step required is to configure your *Corinex Wireless to Powerline Router G* settings according to your Internet connection.

Step 1: Connecting the Router

In this Step, you will connect the *Corinex Wireless to Powerline Router G* to your Internet connection (cable or DSL modem) and to the computers in your home or business environment sharing the Internet connection.

A. Before you begin, make sure that you have the setup information for your specific type of Internet connection. The installation technician from your ISP should have left this information with you after installing your broadband connection. If not, you can call your ISP to request the settings.

B. Make sure that all of your network's hardware is powered off, including the Router, PCs, and cable or DSL modem.

C. Connect one end of an Ethernet network cable to one of the four LAN ports (labeled 1-4) on the back of the Router, and the other end to an Ethernet port on a PC.

Note: If your Computer's Ethernet adapter is not set up, please refer to the Ethernet adapter's user guide for more information.

D. Connect a different Ethernet network cable from your cable or DSL modem to the WAN port on the Router's back panel. This is the only port that will work for your modem connection.

E. Connect the power cable to the *Corinex Wireless to Powerline Router G*, and then plug the power cable into a power outlet.

F. Power on the following devices in this order: cable or DSL modem, Router, and PCs.

G. Make sure the **Power** LED on the front panel lights up green.

Step 2: Configuring Computers

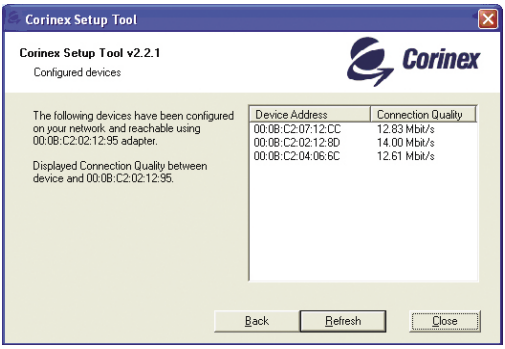
The instructions in this chapter will help you to configure each of your computers to be able to communicate with the *Corinex Wireless to Powerline Router G*.

This process differs between Ethernet, Powerline and Wireless connected computers, and also differs between various operating systems.

If you have an Ethernet connected computer, proceed to **B**, if you have a Powerline connected computer proceed to **A** and if you have Wireless connected computer proceed to **C**.

A. Using the Powerline Connection

Please refer to the Manual of your Powerline Adapter to establish a Powerline connection between the *Corinex Wireless to Powerline Router G* and the other Powerline Adapters. Use the default Powerline (NEK) password "**HomePlug**", as this is the factory default password setting for the *Corinex Wireless to Powerline Router G*. When you are using the Corinex Setup Tool to configure your Powerline Adapter, you can check, whether your Adapter has a Powerline connection to the *Corinex Wireless to Powerline Router G* by searching in the last window of the Corinex Setup Tool for the MAC address of the Router. You will find the MAC address of your Router device on the label on the bottom of the Router's plastic cover (MAC LAN). Proceed to **B**.



B. Using the Ethernet Connection

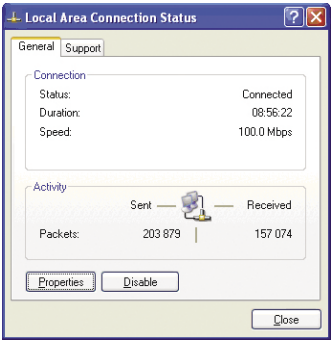
Next you will need to configure your TCP/IP settings so that your computer will obtain an IP (or TCP/IP) address automatically (called DHCP). Computers use IP addresses to communicate with each other across a network or the Internet.

Find out which Operating System your computer is running, such as Windows 95, 98, Millennium, 2000, XP, Linux or Macintosh OS. A detailed configuration guide to the Windows XP Operating System is given in the following section. Other operating systems may have slight differences. Please refer to *Corinex Wireless to Powerline Router G* User Guide for a detailed description of how to change TCP/IP settings on your Operating System.

Configuring Windows XP PCs

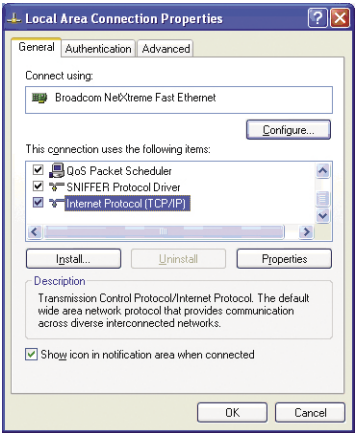
1. Click the **Start** button, open the **Control Panel**. From there, click the **Network Connections** icon and then the **Network Connections** window appears.

2. Select the **Local Area Connection** icon for the applicable adapter (Ethernet adapter, if you are Ethernet connected or Powerline Adapter if you are Powerline connected. It is usually the first adapter listed). Double-click the **Local Area Connection**.

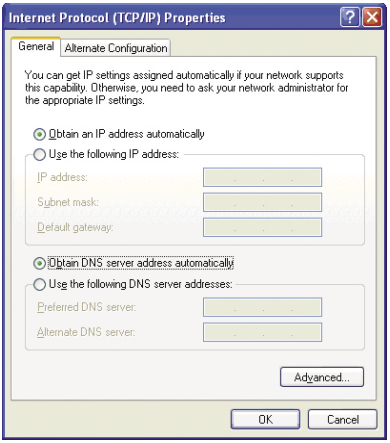


3. The **Local Area Connection Status** screen will appear. Click the **Properties** button.

4. Select **Internet Protocol (TCP/IP)** and click the **Properties** button.



5. Select **Obtain an IP address automatically** and click the **OK** button. Click the **OK** button again (or the **Close** button if any settings were changed) to complete the computer configuration.


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

6. If you do not have DHCP server on the network or it is switched off, then select **Use the following IP address**. Set the **IP address** manually in the format **10.0.0.X** and mask **255.255.255.0** of local TCP/IP settings. In the **Default gateway** box, set the gateway address. The default is **10.0.0.2**.

Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

7. Check the radio button for **Use the following DNS server addresses**. In the **Preferred DNS server** and **Alternate DNS server** boxes, input the IP addresses of DNS Server provided by your ISP.

8. Click **OK** button in the TCP/IP Properties window to complete the PC configuration, and click **Close** or the **OK** button to close the Network window.

C. Using the Wireless Connection

You may need to reconfigure some wireless settings to ensure that all settings match between wireless devices based on 802.11g standard.

> **Note:** Different wireless settings will disable successful wireless network connections between wireless adapters.

Default Wireless Interface Settings are:

SSID: **corinex**
Channel: **11**
WEP: **Disabled**

> **Note:** WEP is disabled by default for an easier installation. For enhanced security purposes, it is recommended that you later (after successful configuration) enable WEP on all wireless devices.

The settings of the TCP/IP level for each platform are similar to the procedure as described in the previous section "Using the Ethernet Connection".

Step 3: Configuring the Router

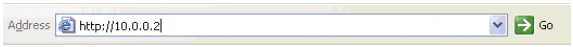
In this step, you will configure the *Corinex Wireless to Powerline Router G* to communicate with the Internet through your Internet Service Provider (ISP). **For this you will need the setup information provided by your ISP.** If you do not have this information, you have to contact your ISP before proceeding.

This information from your ISP was used to configure your computer for Internet access. Because you are now sharing Internet access between several computers, you will use this setup information from your ISP to configure the *Corinex Wireless to Powerline Router G* instead of your computer.

> **Note:** You only need to configure the Corinex Wireless to Powerline Router G once using the first computer you set up.

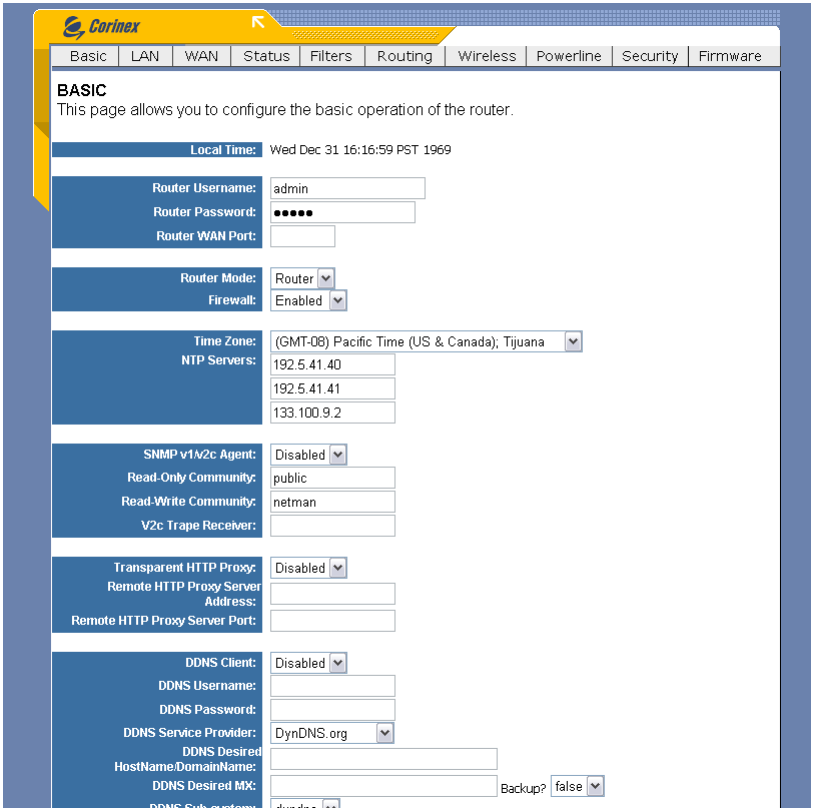
A. Open your WEB browser. Enter **http://10.0.0.2** in the WEB browser's **Address** field. Press the **Enter** key.

> **Note:** Make sure that the TCP/IP settings of your network interface are configured correctly!



B. The window requiring your password entry will appear. Enter **admin** in lowercase letters in the **User name** field and enter **admin** in the **Password** field. Then click the **OK** button.

C. The Router configuration screen will appear. Based on the setup instructions from your ISP, you may need to provide this information into the router, as explained in following instructions.

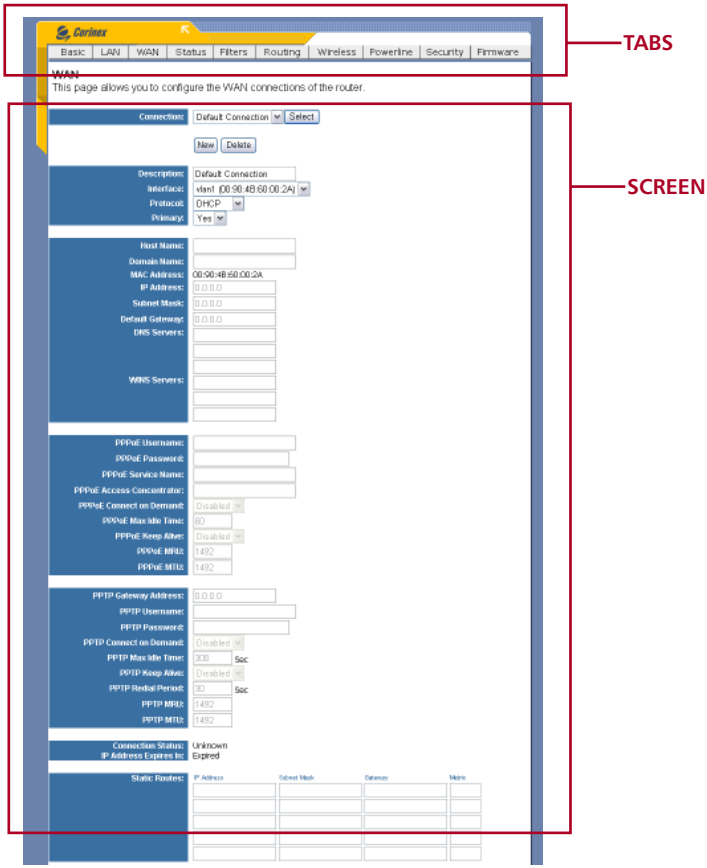


For a network setup, most users only have to use the following tabs of the utility:

- **WAN** - enter the settings provided by your ISP.
- **Basic** – In this section the user can setup the login settings of the *Corinex Wireless to Powerline Router G*. The default username is **admin** and password is **admin**, too. To protect the *Corinex Wireless to Powerline Router G*, we strongly recommend to change the password from its default.

The **Basic, LAN, WAN, Status, Filters, Routing, Wireless, Powerline, Security** and **Firmware** tabs are available for setup of the *Corinex Wireless to Powerline Router G*. Each of these tabs groups have several settings, that you can access in the chosen display screen.

D. Select the **WAN** settings from the main tabs. The following screen will appear:



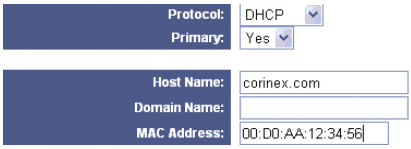
The *Corinex Wireless to Powerline Router G* supports four connection types: **Dynamic** (Obtain IP address dynamically), **Static**, **PPPoE**, and **PPTP**. The setup will differ according to the type of your Internet connection, the instructions are included here.

Follow the instructions:

- **E1** for Dynamic
- **E2** for Static
- **E3** for PPPoE
- **E4** for PPTP connection type

E1. Dynamic

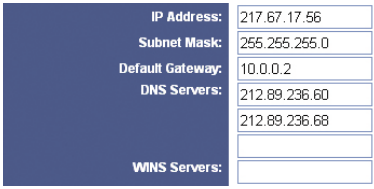
- Select **DHCP** from the **Protocol** drop down menu.
- If your ISP gave you the Host Name, enter it into the **Host Name** field.
- Some ISPs require you to change your Router's MAC address into your previously connected Ethernet card. Click on **MAC Address** field and change it.



- Click on **Apply** button.
- Continue to **F**.

E2. Static

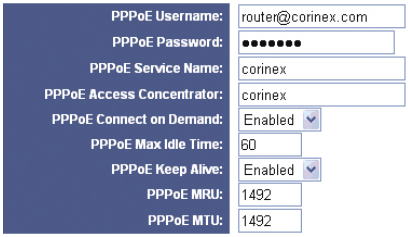
- Select **Static** from the **Protocol** drop down menu.
- Enter the **IP address, Subnet Mask** and **Gateway Address** according to the information provided to you by your ISP.
- If your ISP provided you with specific DNS settings, you need to change them by clicking **Click here to enter your DNS Settings**.
- Set the IP address of the **WINS Servers** to use for resolving NetBIOS names.



- Click on **Apply** button.
- Continue to **F**.

E3. PPPoE

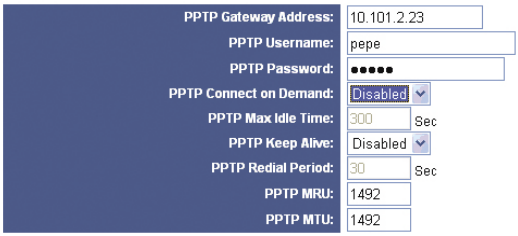
- Select **PPPoE** from the **Protocol** drop down menu.
- Enter the **PPPoE Username, PPPoE Password**, and Service Name (Optional) according to the information provided to you by your ISP.
- Set the name of the **PPPoE Service Name** and **PPPoE Access Concentrator**. Required by some ISPs.
- Set in the **PPPoE Connect on Demand** field whether the PPPoE link should be automatically disconnected if no traffic has been observed for the period specified by **PPPoE Max Idle Time**.
- Set the number of seconds to wait before disconnecting the PPPoE link if **PPPoE Connect on Demand** is **Enabled**.
- Set in the **PPPoE Keep Alive** field whether the PPPoE link should be automatically restored if it is lost. This setting has no effect it **PPPoE Connect on Demand** is **Enabled**.
- Sets the maximum number of bytes that the PPPoE interface will receive in single Ethernet frame. The default value of the **PPPoE MRU** field is 1492.
- Change the **MTU** only if your ISP specifically requires a different setting than 1492. Then enter the required value in the **PPPoE MTU** field.



- Click on **Apply** button.
- Continue to **F**.

E4. PPTP

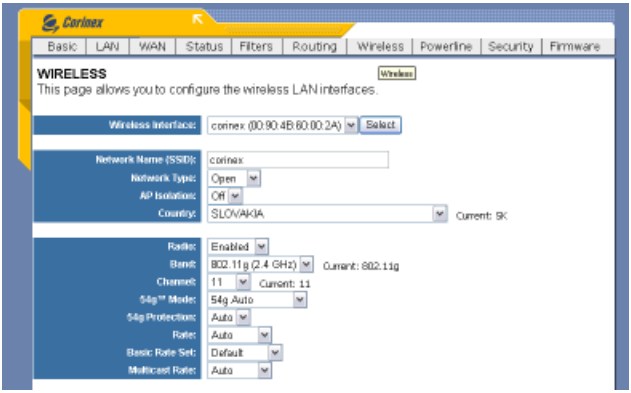
- Select **PPTP** type of connection from the **Protocol** drop down menu.
- Enter the IP address to the **PPTP Gateway Address**, set the **PPTP Username**, and **PPTP Password** for authentication.
- Set whether the PPTP link should be automatically disconnected if no traffic has been observed for the period specified in **PPTP Max Idle Time**.
- In the **PPTP Max Idle Time**, set the number of seconds to wait before disconnection of the PPTP link if **PPTP Connect on Demand** is **Enabled**.
- In the **PPTP Keep Alive** drop down menu you can set whether the PPTP link should be automatically restored if it is lost. This setting has no effect if **PPTP Connect on Demand** is **Enabled**.
- If the **PPTP Connect on Demand** is **Enabled**, you can set the number of seconds to wait before disconnecting the PPTP link in the **PPTP Redial Period** input field.
- In the **PPTP MRU** field, set the maximum number of bytes that the PPTP interface will receive in a single Ethernet frame.
- In the **PPTP MTU** field, you can set the maximum number of bytes that the PPTP interface will transmit in a single Ethernet frame.



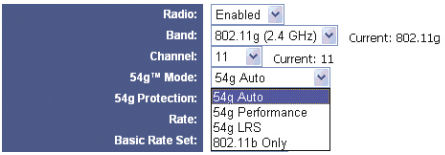
- Click on **Apply** button.
- Continue to **F**.

F. Reset the power on your Internet connection (cable or DSL modem).

G. To configure the Router for your wireless network, select the **Wireless** settings from the main tabs.



H. Select the Wireless Network **Mode:**



54g Auto: If you have Wireless-G and 802.11b devices in your network, then keep the default setting, 54g Auto.
54g Performance: If you have only Wireless-G devices, select **G-Only**. This will exclude all 802.11b clients from connecting to the access point.
54g LRS: The third option (Limited Rate Support) can be used in case you experience any problems with connecting to the access point.
802.11b Only: If you have only Wireless-B devices, select B-Only.

I. Wireless **Network Name (SSID)**.
The SSID is the network name shared among all points in a wireless network. The SSID must be identical for all points in the wireless network. It is case-sensitive and must not exceed 32 characters (use any of the characters on the keyboard). Make sure this setting is the same for all points in your wireless network. For added security, you should change the default SSID (**corinex**) to a unique name.

J. Wireless Channel.
Select the appropriate channel from the list provided to correspond with your network settings. All devices in your wireless network must be broadcast on the same channel in order to function correctly.

K. Change these settings as described here and click the **Apply** button to apply your changes.

L. Restart your computers so that they can obtain the Router's new settings.

M. Test the setup by opening your web browser from any computer and entering **http://www.corinex.com**

The installation of *Corinex Wireless to Powerline Router G* is complete!

> **NOTE:** For more advanced settings and security options, please refer to the User Guide on the Installation CD-ROM.